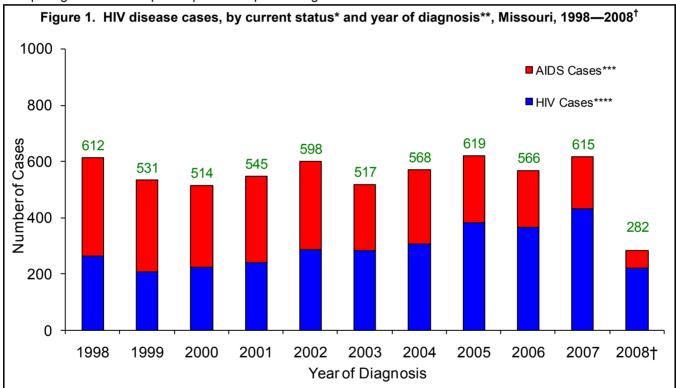
Missouri Department of Health and Senior Services Bureau of HIV, STD, and Hepatitis

HIV/STD Statistics

June 2008

Notes to the Reader:

- HIV disease represents all individuals diagnosed with the human immunodeficiency virus (HIV), regardless of the stage of disease progression. All persons with HIV disease can be sub-classified as either an AIDS case (if they are in the later stages of the disease process and have met the case definition for AIDS), or an HIV case (if they are in the earlier stages of the disease process and have not met the AIDS case definition). In this report, the sub-classification of HIV or AIDS is based on an individual's status of disease progression as of June 30, 2008.
- The data presented in this report only includes cases diagnosed through June 30, 2008, based on information reported to the Missouri Department of Health and Senior Services through September 2008. The difference between the date of diagnosis and the date of report represents delays in case reporting.
- When assessing trends over time, please note that data presented for 2008 only represent cases diagnosed through June 30, 2008. All data are subject to change.
- Additional data quality assurances undertaken in the past year have improved data quality, but have resulted in changes in the number of reported cases over time. This may result in discrepancies when comparing the current report to previous epidemiological data.



^{*}HIV case vs. AIDS case

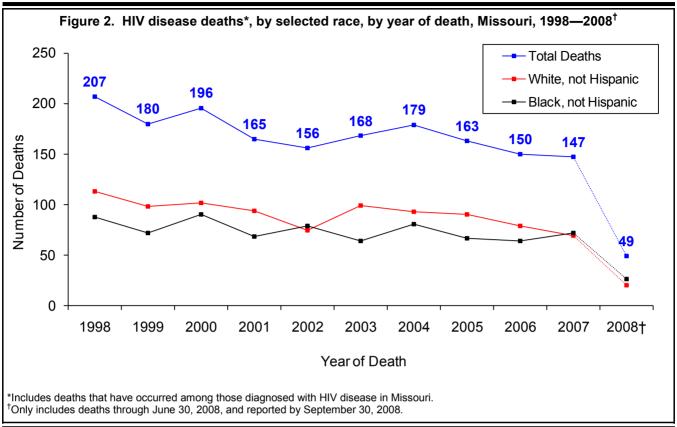
- Since 1982, there have been a total of 16,596 HIV disease cases diagnosed through June 30, 2008.
- Between 1998 and 2007, the number of new HIV disease diagnoses has ranged from 514 cases in 2000, to 619 cases in 2005. Overall, the number of new cases has remained relatively stable from 1998 to 2007.
- There have been 282 new HIV disease diagnoses from January to June 2008. The majority of these individuals were classified as HIV cases, not AIDS as of June 30, 2008.
- The differences in the number of individuals sub-classified as AIDS cases are due to the progression of the disease over time. For those diagnosed with HIV disease in 1998, a larger number are currently classified as AIDS cases compared to those diagnosed in 2007 because they have been living with the virus longer.

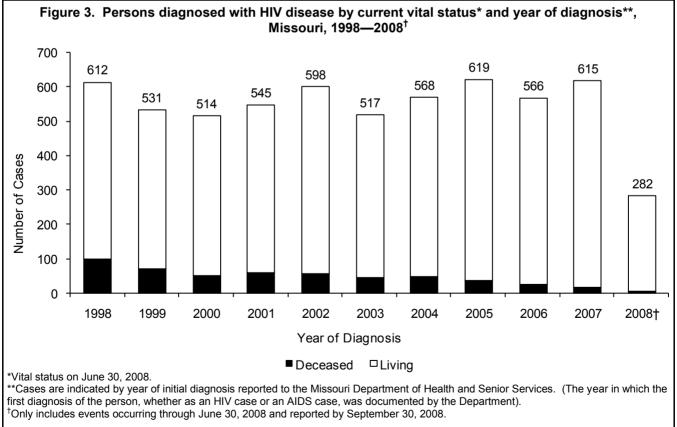
^{**}Cases are indicated by year of initial diagnosis reported to the Missouri Department of Health and Senior Services. (The year in which the first diagnosis of the person, whether as an HIV case or an AIDS case, was documented by the Department).

[†]Only includes cases diagnosed through June 30, 2008 and reported by September 30, 2008.

^{***}These cases were either: 1) initially reported as HIV cases and then later reclassified as AIDS cases because they subsequently met the AIDS case definition; or 2) initially reported as AIDS cases.

^{****}These cases were initially reported as HIV cases and have remained HIV cases. They have not met the case definition for AIDS as of June 30, 2008.





- The total number of deaths among those diagnosed with HIV disease in Missouri decreased from 1998 to 2007 (Figure 2), likely due to the introduction of highly actively antiretroviral therapy (HAART) in 1996.
- A larger number of those diagnosed in 1998 have died as of June 30, 2008 compared to those diagnosed in 2007, likely due to differences in the length of time living with the virus and current age (Figure 3).

	and sex, and current age***, Missouri, 2008 [†] HIV Disease*					
	Diagnos	ed 2008 [†]		Living 2008 [†]		
Sex	Cases	<u>%</u>	Cases	<u>%</u>	Rate**	
Male	230	81.6%	8,858	83.5%	308.5	
Female	52	18.4%	1,755	16.5%	58.4	
Total	282	100.0%	10,613	100.0%	180.5	
Race/Ethnicity						
White	116	41.1%	5,503	51.9%	112.7	
Black	146	51.8%	4,604	43.4%	664.8	
Hispanic	16	5.7%	362	3.4%	202.9	
Asian	3	1.1%	44	0.4%	46.1	
American Indian	0	0.0%	23	0.2%	74.8	
Other/Unknown	1	0.4%	77	0.7%	N/A	
Total	282	100.0%	10,613	100.0%	180.5	
Race/Ethnicity-Males White Male	102	44.3%	4,898	55.3%	205.0	
Black Male	110	47.8%	3,535	39.9%	1084.9	
Hispanic Male	15	6.5%	306	3.5%	325.2	
Asian Male	3	1.3%	32	0.4%	69.0	
American Indian Male	0	0.0%	22	0.2%	142.2	
Other/Unknown Male	0	0.0%	65	0.7%	N/A	
Total	230	100.0%	8,858	100.0%	308.5	
Race/Ethnicity-Females						
White Female	14	26.9%	605	34.5%	24.3	
Black Female	36	69.2%	1,069	60.9%	291.5	
Hispanic Female	1	1.9%	56	3.2%	66.4	
Asian Female	0	0.0%	12	0.7%	24.5	
American Indian Female	0	0.0%	1	0.1%	6.6	
Other/Unknown Female	1	1.9%	12	0.7%	N/A	
Total	52	100.0%	1,755	100.0%	58.4	
Current Age***						
	_					

<2

2-12

13-18

19-24

25-44

45-64

65+

Total

2

0

8

67

155

46

4

282

There are 10,613 individuals living with HIV disease that were diagnosed in Missouri through June 30, 2008.

0.7%

0.0%

2.8%

23.8%

55.0%

16.3%

1.4%

100.0%

4

33

57

344

5,009

4,775

354

10,576

0.0%

0.3%

0.5%

3.3%

47.4%

45.1%

3.3%

100.0%

2.5

3.9

11.5

71.8

316.9

312.9

44.9

179.9

- A greater proportion of the newly diagnosed cases occurred among blacks compared to living cases.
- The majority of newly diagnosed cases are between the ages of 25-44 years old (55.0%). The majority of living cases are currently between the ages of 25-44 (47.4%) and 45-64 (45.1%).

^{*}Includes all individuals diagnosed with the HIV virus, regardless of current status (i.e., HIV or AIDS).

^{**}Per 100,000 population based on 2007 MDHSS estimates.

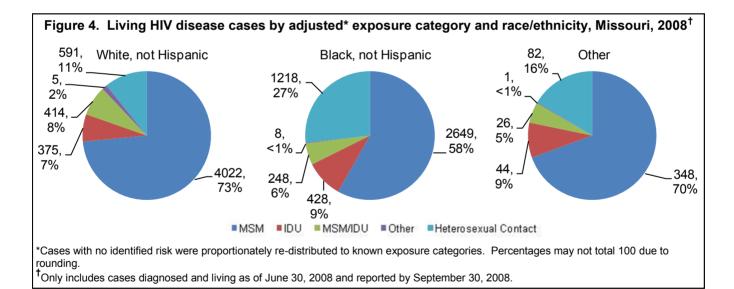
[†]Only includes cases diagnosed or living as of June 30, 2008 and reported by September 30, 2008.

^{***}Based on age as of June 30, 2008. Current age is missing for 37 living cases.

	HIV Disease				
Exposure category	_	2008 [†]		Living*	
Adult/Adolescent					
Men who have sex with men	136	48.6%	7,019	66.7%	
Men who have sex with men and inject drugs	11	3.9%	688	6.5%	
Injecting drug use	7	2.5%	847	8.0%	
Heteros exual contact	10	3.6%	1,891	18.0%	
Hemophilia/coagulation disorder	0	0.0%	65	0.6%	
Blood transfusion or tissue recipient	0	0.0%	14	0.1%	
No indicated risk (NIR)	116	41.4%			
ADULT/ADOLESCENT SUBTOTAL	280	100.0%	10,527 **	100.0%	
Pediatric (<13 years old)					
PEDIATRIC SUBTOTAL	_ 2	100.0%	86	100.0%	
TOTAL	282		10,613		

^{*}Cases with no identified risk were proportionately re-distributed to known exposure categories.

^{**}Includes 3 cases with a confirmed "other" exposure category.



- Of cases diagnosed from January to June 2008, 41.4% did not have a reported risk as of September 30, 2008. Surveillance activities have been implemented to resolve cases reported with unknown risk information. These cases will not be proportionately re-distributed until the end of the surveillance follow-up period (Table 2).
- The majority of living cases are attributed to men who have sex with men (66.7%), followed by heterosexual contact (18.0%). Cases with missing exposure category information have been proportionately redistributed into known exposure categories (Table 2).
- There are differences in the distribution of exposure categories among living cases by race/ethnicity (Figure 4). Among whites, 73% of living cases are attributed to men who have sex with men, compared to 58% among blacks. In contrast, heterosexual contact represents the exposure category for 27% of living black cases, but only 11% of living white cases.

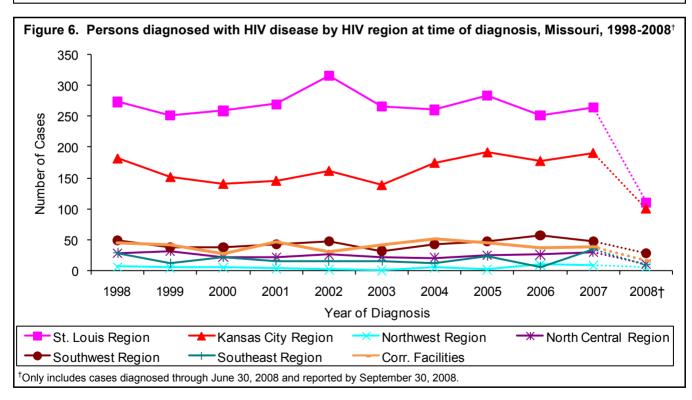
[†]Only includes cases diagnosed through June 30, 2008 and reported by September 30, 2008.

Figure 5. Number of persons living with HIV disease by county of residence* and HIV region at time of diagnosis, Missouri, 1982-2008[†]



*Based on residence at time of most recent diagnosis of HIV or AIDS. Excludes persons diagnosed in Missouri correctional facilities and 14 cases missing county of residence at time of diagnosis.

[†]Includes those living with HIV disease as of June 30, 2008 and reported by September 30, 2008.



- Figure 5 presents the number of cases still presumed to be living whose most recent diagnosis (i.e. HIV or AIDS) occurred in the county. It does not reflect the current number of cases living in the county. The majority of living cases were diagnosed in Jackson county, St. Louis city and St. Louis county.
- The number of cases diagnosed in each geographic region has remained relatively stable from 1998 to 2007. In the Kansas City region the number of new diagnoses increased from 2003 to 2007, after decreasing from 1998 to 2003 (Figure 6).

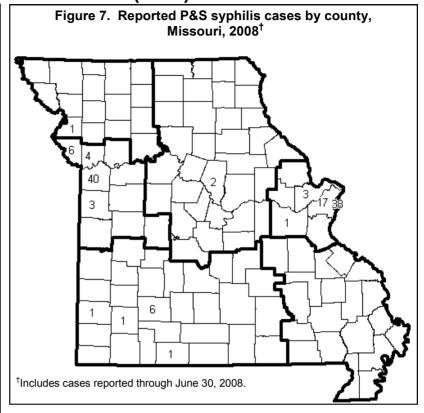
PRIMARY AND SECONDARY (P&S) SYPHILIS

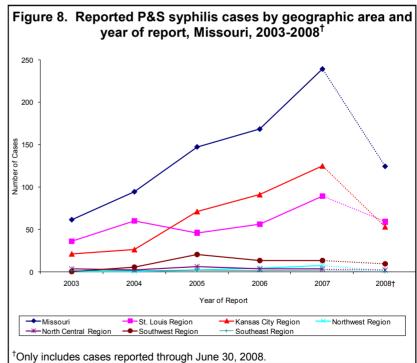
Table 3. Reported P&S syphilis cases,

by race, by geo Misso	graphic ouri, 20	area, by	y sex,
		Cases	
Missouri	Male	Female	Total
White	51	8	59
Black	47	6	53
Other/Unknown*	11	1	12
Total Cases	109	15	124
St. Louis Region			
White	17	2	19
Black	35	4	39
Other/Unknown*	1	0	1
Total Cases	53	6	59
Kansas City Region			
White	24	5	29
Black	12	2	14
Other/Unknown*	9	1	10
Total Cases	45	8	53
Northwest Region			
White	1	0	1
Black	0	0	0
Other/Unknown*	0	0	0
Total Cases	1	0	1
North Central Regio	n		
White	2	0	2
Black	0	0	0
Other/Unknown*	0	0	0
Total Cases	2	0	2
Southwest Region			
White	7	1	8
Black	0	0	0
Other/Unknown*	1	0	1
Total Cases	8	1	9
Southeast Region			
White	0	0	0
Black	0	0	0
Other/Unknown*	0	0	0
Total Cases	0	0	0

[†]Includes cases reported through June 30, 2008.

*Includes cases identified with Hispanic ethnicity.





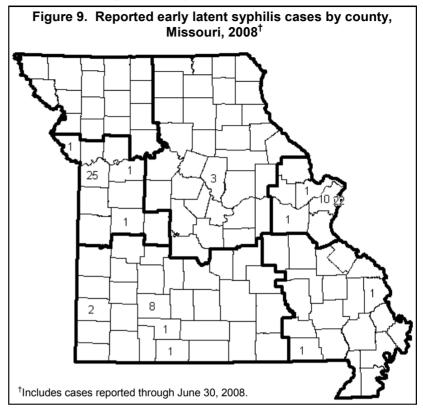
- There have been a total of 124 P&S syphilis cases reported through June 30, 2008 in Missouri (Table 3).
- From 2003 to 2007 there has been an increase in the number of reported P&S syphilis cases in Missouri overall. Trends for 2008 cannot be assessed at this time (Figure 8).
- Of the P&S syphilis cases reported from January 1 to June 30, 2008, 38 (30.6%) were co-infected with HIV. All co-infections were diagnosed among males. Thirty-five of the co-infections were attributed to men who have sex with men. 1 was attributed to heterosexual contact, and 2 co-infections had no indentified risk.

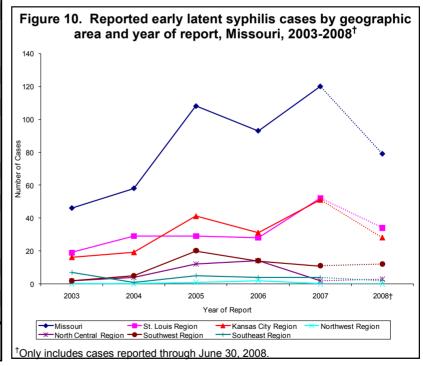
EARLY LATENT SYPHILIS

Table 4. Reported early latent syphilis

	Cases			
Missouri	Male	Female	Total	
White	32	8	40	
Black	26	5	31	
Other/Unknown*	4	4	8	
Total Cases	62	17	79	
St. Louis Region				
White	9	1	10	
Black	19	3	22	
Other/Unknown*	2	0	2	
Total Cases	30	4	34	
Kansas City Regior				
White	9	5	14	
Black	7	1	8	
Other/Unknown*	2	4	6	
Total Cases	18	10	28	
Northwest Region				
White	0	0	0	
Black	0	0	0	
Other/Unknown*	0	0	0	
Total Cases	0	0	0	
North Central Region	on			
White	2	0	2	
Black	0	1	1	
Other/Unknown*	0	0	0	
Total Cases	2	1	3	
Southwest Region				
White	11	1	12	
Black	0	0	0	
Other/Unknown*	0	0	0	
Total Cases	11	1	12	
Southeast Region				
White	1	1	2	
Black	0	0	0	
Other/Unknown*	0	0	0	
Total Cases	1	1	2	

*Includes cases identified with Hispanic ethnicity.





- A total of 79 early latent syphilis cases have been reported in Missouri through June 30, 2008 (Table 4).
- Overall from 2003 to 2007 there has been an increase in the number of reported early latent syphilis cases in Missouri, with slight decrease in 2006. Trends for 2008 cannot be assessed at this time (Figure 10).
- Of the early latent syphilis cases reported from January 1 to June 30, 2008, 27 (34.2%) were co-infected with HIV. Males represented 26 of the 27 co-infections diagnosed. Twenty-three of the co-infections were attributed to men who have sex with men, 2 were attributed to men who have sex with men and injection drug use, 1 was attributed to heterosexual contact, and 1 had no identified risk.

Table 5. Reported gonorrhea cases, by race, by geographic area, by sex, Missouri, 2008[†] Cases Male Female Total Missouri White 165 545 710 2.576 Black 1.288 1.288 Other/Unknown* 275 455 730 **Total Cases** 1,728 2,288 4,016 St. Louis Region White 41 85 126 Black 714 703 1417 Other/Unknown* 153 267 420 **Total Cases** 908 1,055 1,963 **Kansas City Region** White 46 156 202 Black 397 454 851 Other/Unknown* 111 61 172 **Total Cases** 504 721 1,225 Northwest Region White 13 3 16 Black 2 2 4 Other/Unknown* 3 2 5 **Total Cases** 8 17 25 North Central Region 112 140 White 28 Black 77 66 143 Other/Unknown* 40 21 19 **Total Cases** 126 197 323

29

23

20

72

18

75

17

110

[†]Includes cases reported through June 30, 2008.

*Includes cases identified with Hispanic ethnicity.

114

9

36

159

65

54

20

139

143

32

56

231

83

129

37

249

Southwest Region

Other/Unknown*

Southeast Region

Other/Unknown*

Total Cases

Total Cases

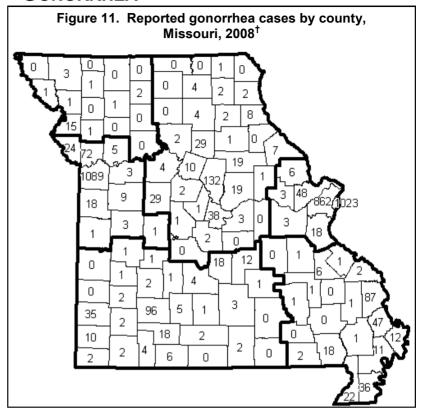
White

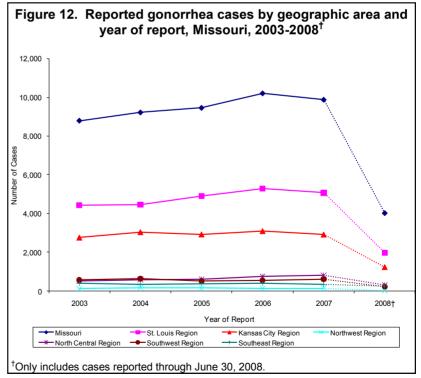
Black

White

Black

GONORRHEA





- A total of 4,016 gonorrhea cases have been reported in Missouri through June 30, 2008 (Table 5).
- The number of reported gonorrhea cases in Missouri increased from 2003 to 2006, with a slight decrease in 2007. Trends for 2008 cannot be assessed at this time (Figure 12).

Table 6. Reported chlamydia cases. by race, by geographic area, by sex, Missouri, 2008[†] Cases Total Missouri Male Female White 633 2.774 3.407 5,430 Black 1.917 3.513 Other/Unknown* 753 2,646 3,399 **Total Cases** 3,303 8,933 12,236 St. Louis Region White 127 413 540 Black 1931 2947 1.016 Other/Unknown* 415 1392 1807 **Total Cases** 1,558 3,736 5,294 **Kansas City Region** White 160 696 856 Black 1802 651 1151 Other/Unknown* 181 656 837 **Total Cases** 992 2,503 3,495 Northwest Region 175 223 White 48 Black 22 17 39 Other/Unknown* 17 36 53 **Total Cases** 82 233 315 North Central Region 110 508 White 618 Black 125 201 326 Other/Unknown* 152 54 206 **Total Cases** 289 861 1,150 Southwest Region 860 White 142 718 Black 45 108 63 Other/Unknown* 61 293 354 **Total Cases** 248 1,074 1,322 Southeast Region White 264 310 46 Black 145 63 208 Other/Unknown* 25 117 142

134

[†]Includes cases reported through June 30, 2008.

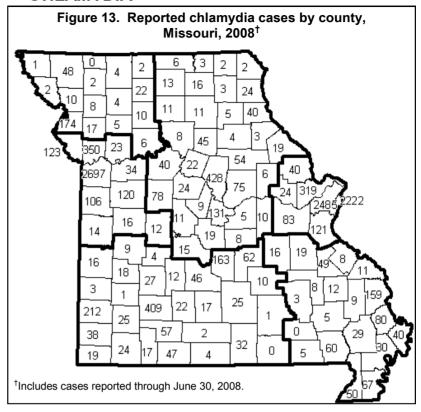
*Includes cases identified with Hispanic ethnicity.

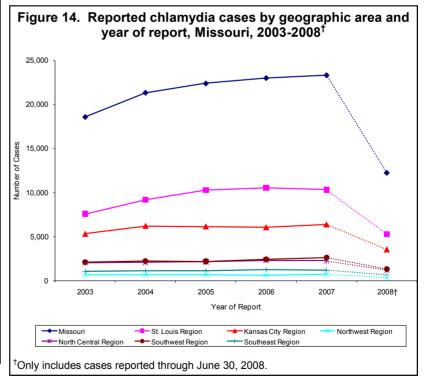
526

660

Total Cases

CHLAMYDIA





- A total of 12,236 chlamydia cases have been reported in Missouri through June 30, 2008 (Table 6).
- From 2003 to 2007 there has been an increase in the number of reported chlamydia cases in Missouri overall. Trends for 2008 cannot be assessed at this time (Figure 14).